

MEETING MINUTES
RI/FS for the Sand, Gravel, and Stone Site
Elkton, Cecil County, Maryland

Date: 19 February 1985

Place: NUS Office, Pittsburgh, PA

Participants: Robert E. Stecik, Jr., NUS
Ramesh Shah, NUS
Haia Roffman, NUS
Larry Wright, NUS
James S. Whang, AEPCO
James Richenderfer, AEPCO

The meeting was called to discuss the status of the drilling program and the project as a whole and to plan subsequent project activities. A copy of the meeting agenda is enclosed and meeting items discussed are summarized below.

(1) Geophysical logs, boring/well logs and information related to shallow, unconsolidated deep and bedrock aquifers at the site were reviewed. It was concluded that adequate information is now available regarding the shallow aquifers. General findings regarding these aquifers include:

- o The shallow clay layer around Pond P01 dips southward; and the shallow groundwater moves southward and forms a seepage line south of this pond and north of Lower Haul Road.
- o The shallow clay layer around Pond P02 dips eastward; and the shallow groundwater flows eastward and breaks out the surface as evidenced by a seep in the eastern wooded area of the site.
- o The shallow clay layer around Pond P03 dips westward toward the "Sedge Meadow" area thence southward; the shallow groundwater moves in the general direction consistent with the dipping of the clay layer; and it discharges to the "Sedge Meadow" in the form of seeps.

The hNu readings taken at shallow monitoring wells (SMW's) downstream from the above ponds are higher than the background, while hNu readings on upgradient wells are near the background level. This further documents determination that the shallow groundwater is contaminated and that it discharges to surface water downstream of the ponds. NUS requested that AEPCO send some representative sand samples to Ken Woodruff at the Delaware Geological Survey and rock samples to John Edwards at U.S.G.S. for examination.

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① (2) Available information on bedrock wells on and near the site indicates that bedrock in the area dips southward. Information is lacking to define whether aquifers at various depths are inter-communicating. This prompted a decision to have AEPCO collect samples from DMW-3, DMW-7, BMW-7, and DMW-6 and deliver them to NUS for screening tests for the presence of volatile organic compounds. A decision on whether to implement the Phase II drilling program, consisting of bedrock wells and unconsolidated deep wells, will be held in abeyance pending the screening test results. The decision will then be subject to approval by EPA and the State of Maryland.

(3) AEPCO will implement the sampling effort for all wells drilled at the site and activate JTC Environmental Consultants, Inc., the laboratory subcontractor, to perform the necessary laboratory tests as defined in the project sampling plan. This task is planned to start on February 21, 1985.

(4) The meeting participants reviewed available information regarding residential/institutional wells near the site and selected 11 wells for the residential well investigation task comprising:

- o Wells downgradient from the site
- o Wells upgradient from the site
- o One bedrock well recently drilled

○ The wells were selected based on the following criteria:

- o Reasonable distance from the site
- o Probability of picking up groundwater plumes south of the site
- o Adequate drilling logs available for wells selected for later analysis
- o Adequate coverage of the circumference of the site

(5) Pending the results of a meeting with EPA and State personnel on February 25 (Monday), AEPCO will proceed with the residential well sampling program. As part of the sampling program, AEPCO will collect samples from four residential bedrock wells and deliver them to NUS for screening tests for volatile organic compounds. This task is envisioned to start on February 27, 1985.

○ (6) The participants discussed and finalized the procedures to be used for sampling of monitoring wells onsite and residential wells offsite; and those for performing hydraulic conductivity tests for shallow monitoring wells. It was agreed on that it may be desirable to obtain well water elevations for the residential wells, if field conditions allow. A slug test (or rising head test) will be used to evaluate hydraulic conductivities of shallow wells. A pumping test will be used for unconsolidated deep wells. It was suggested that an unconsolidated deep well be subjected to a 24-hour pumping test to yield the appropriate information about the aquifer at the site as part of the Phase II drilling program.

(7) Participants were given a copy of the draft Temporary Relocation Plan for the test pit excavation task and AEPCO solicited comments. Tentative test locations were picked which will be discussed during the prescheduled meeting with EPA and State personnel. Test pits would generally be located in Ponds P01, P02, and P03, and suspected waste burial areas as indicated in the geophysical study report.

(8) AEPCO presented a list of available remedial technologies and requested comments on them.

(9) Participants agreed that certain portions of the site should be incorporated into the ground survey program, which also includes all on-site monitoring wells, off-site residential wells, and gages in Ponds P01, P02, and P03. The re-survey is tentatively scheduled for the week of March 4, 1985.

(10) AEPCO presented a detailed cost proposal (Contract Modification No. 2) for the updating of actual efforts for the subsurface investigation task (Task 18).

(11) To expedite laboratory analysis for groundwater and residential well samples, AEPCO was in the process of procuring the services of JTC Environmental Consultants, Inc. The subcontract will be finalized before the start of the groundwater sampling effort.

(12) A laboratory results schedule was established as follows:

	<u>Date</u>	
	<u>Lab Results from Biospherics</u>	<u>Completion of Validation by NUS</u>
1st Batch	Submitted prior this meeting	3/01/85
2nd Batch	2/22/85	3/08/85
3rd Batch	3/01/85	3/15/85
4th Batch	3/08/85	3/22/85
	<u>Lab Results from JTC</u>	<u>Completion of Validation by NUS</u>
Groundwater and Residential Well Water Samples	3/25 - 3/29/85	4/5 - 4/12/85